

**Data Validation Checklist**  
**Semivolatile Organic Analyses**

Project: 35<sup>TH</sup> Avenue Superfund Site  
 Laboratory: TestAmerica - Savannah, GA  
 Method: SW-846 8270C Low-Level (PAH)  
 Matrix: Soil  
 Reviewer: Karen Marie Trujillo  
 Concurrence<sup>1</sup>: Martha Meyers-Lee

Project No: 15268508.20000  
 Job ID.: 680-85860-3  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Samples Collected: 12/12/2012  
 Date: 1/22/2013  
 Date: 03/01/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?	✓			According to the Case Narrative, all samples reported under Job ID 680-85860-3 were received intact and in good condition. However, the Log-in Sample Receipt Checklist indicates that the jar for Lab ID 680-85860-43 was cracked during receiving and the contents of the jar salvaged and transferred to another jar by the laboratory. J/UJ-Flag all results.	J, UJ
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met ( $\leq$ 7 and 14 days from collection to extraction for aqueous and solid samples, respectively; $\leq$ 40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.	✓				
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				

<sup>1</sup> Independent technical reviewer

**Data Validation Checklist (Continued)**

<b>Review Questions</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Samples (Analytes) Affected/Comments</b>	<b>Flag</b>
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 121112-RB-Shovel (680-85731-47).	
12. Are equipment/rinsate blanks associated with every sample? If no, note in DV report.		✓		According to the QAPP, a rinsate blank is to be collected after each decontamination event, which occurs once per week per the client. A rinsate blank (121112-RB-Shovel) was collected during the week of 12/10/12. The rinsate blank was analyzed for PAHs under Test America Job ID 680-85731-3.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?	✓			CV0621C-CSD (680-85860-58) and CV0621C-CS (680-85860-57)	
15. Was precision deemed acceptable as defined by the project plans?	✓			Refer to <b>Attachment B</b> (Field Duplicate Evaluation)	
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			<p>Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.</p> <p>The laboratory was notified that the Form Vs included in the data package of 12/29/2012 were incomplete and contained transcription errors. Revised Form Vs were provided by the laboratory on 02/14/2013 (refer to <b>Attachment C</b>).</p>	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> <li>• Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative.</li> <li>• An initial calibration is to be associated with each sample analysis.</li> </ul>	✓			<ul style="list-style-type: none"> <li>• Instrument ID: MSK</li> <li>• Initial Calibration: 12/14/2012</li> <li>• ICV: 12/14/2012 @ 10:58 (Associated ICV data provided by the laboratory on 2/14/2013, refer to <b>Attachment C</b>)</li> <li>• CCV: 12/21/12 @ 09:04</li> <li>• Instrument ID: MSK</li> </ul>	

**Data Validation Checklist (Continued)**

<b>Review Questions</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Samples (Analytes) Affected/Comments</b>	<b>Flag</b>
<ul style="list-style-type: none"> <li>A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.</li> </ul>				<ul style="list-style-type: none"> <li>Initial Calibration: 12/26/2012</li> <li>ICV: 12/26/12 @ 17:51 (Associated ICV data provided by the laboratory on 2/14/2013, refer to <b>Attachment C</b>)</li> <li>Instrument ID: MSY</li> <li>Initial Calibration: 12/21/2012</li> <li>ICV: 12/21/12 @ 13:52 (Associated ICV data provided by the laboratory on 2/14/2013, refer to <b>Attachment C</b>)</li> <li>CCV: 12/21/12 @ 19:31 &amp; 12/27/12 @ 14:13</li> </ul>	
<p>19. Were calibration results within laboratory/project specifications?</p> <ul style="list-style-type: none"> <li>ICAL (Criteria: <math>\leq 15</math> mean %RSD with no individual CCC %RSD <math>\leq 30</math> (<math>\leq 50\%</math> for poor performers), OR <math>r \geq 0.995</math>, OR <math>r^2 \geq 0.99</math>, and RRF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)):           <ul style="list-style-type: none"> <li>If %RSD <math>&gt; 15</math> (<math>&gt; 50\%</math> for poor performers), or <math>r &lt; 0.995</math>, or <math>r^2 &lt; 0.995</math>, then J-flag positive results and UJ-flag non-detects</li> <li>If mean RRF <math>&lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then J-flag positive results and R-flag non-detects</li> </ul> </li> <li>ICV and CCV (Criteria: <math>\leq 20\%D</math> (<math>\leq 50\%</math> for poor performers) and RF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)):           <ul style="list-style-type: none"> <li>If %D <math>&gt; 20</math> (<math>&gt; 50\%</math> for poor performers), then J-flag positive results and UJ-flag non-detects</li> <li>If RF <math>&lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then UJ-flag non-detected semivolatile target compounds</li> </ul> </li> </ul>	✓			CCV of 12/21/12 @ 19:31, instrument MSY: Indeno[1,2,3-cd]pyrene @ -24.4%D (Laboratory/Project: <20.0). J-Flag detected results in associated samples <sup>2</sup> , because a positive bias is indicated by the negative CCV percent difference.	J
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R > Upper Control Limit (UCL) and J/R-flag results when %R < Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				

<sup>2</sup> Associated samples: 680-85860-41, 43 through 47, and 49 through 60

**Data Validation Checklist (Continued)**

<b>Review Questions</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Samples (Analytes) Affected/Comments</b>	<b>Flag</b>
24. Is the MS/MSD parent sample a project-specific sample?	✓			Prep Batch 260536: 680-85860-49 (CV0511UU-CS), MS/MSD	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> <li>• If the native sample concentration &gt; 4x spiking level, then an evaluation of interference is not possible.</li> <li>• If either MS or MSD recovery meets control limits, qualification of data is not warranted.</li> <li>• MS and MSD %R&lt;10: J and R Flag positive and ND results, respectively</li> <li>• MS and MSD %R &gt;10 and &lt;LCL: J-Flag positive and UJ-flag non-detect results</li> <li>• MS and MSD R% &gt;UCL (or 140): J-Flag positive results</li> </ul>	✓				
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> <li>• If the native sample concentration &gt; 4x spiking level, then an evaluation of interference is not possible.</li> <li>• If %RPD &gt; UCL, J-flag positive result and UJ-flag non-detect result</li> </ul>	✓				
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"> <li>• If %R for 1 Acid or BN surrogates &lt;10, then J-flag positive and R-flag non-detect associated sample results</li> <li>• If 2 or more Acid or BN %R &gt;UCL, then J-flag positive results</li> <li>• If 2 or more Acid or BN %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> <li>• If 2 or more Acid or BN , with 1 %R &gt;UCL and 1 %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li> </ul>		✓		<p>The recovery of the surrogate met control limits during the analysis of sample CV0511AD-GS (680-85860-48).</p> <p>The recovery (10%) of o-terphenyl was less than the lower control limit (36-131%R) during the analysis of sample CV0511MMM-CS (680-85860-42). All PAH results are estimated (J, UJ).</p> <p>o-Terphenyl was not recovery during the analysis of all samples, except the two above-mentioned samples. Qualification of data is not warranted due to a lack of surrogate recovery, because of the surrogate was diluted out with sample dilution.</p>	None
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"> <li>• If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-</li> </ul>	✓				

**Data Validation Checklist (Continued)**

<b>Review Questions</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Samples (Analytes) Affected/Comments</b>	<b>Flag</b>
<p>detect associated sample results</p> <ul style="list-style-type: none"> <li>• If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results</li> <li>• If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results</li> <li>• If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data.</li> <li>• The chromatographic profile for that sample must be examined to determine if any false positives or negatives exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.</li> </ul>					
29. Were lab comments included in report?	✓			Refer to <b>Attachment D</b> (Case Narrative)	

**Comments:** The data validation was conducted in accordance with the *Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1* (OTIE, October 2012). The data review process was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review* (EPA, October 1999) and *USEPA CLP NFG for Low Concentration Organic Methods Data Review* (EPA, June 2001). Sample results have been qualified based on the results of the data review process (**Attachment E**). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.

**DV Flag Definitions:**

- J        The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- R        The sample results are unusable. The analyte may or may not be present in the sample.
- U        The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.
- UJ      The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

**ATTACHMENT A**  
**SAMPLE SUMMARY**

## Sample Summary

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-3  
 SDG: 68085860-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-85860-41	CV0511LLL-CS	Solid	12/13/12 15:00	12/15/12 10:03
680-85860-42	CV0511MMM-CS	Solid	12/13/12 15:36	12/15/12 10:03
680-85860-43	CV0511NNN-CS	Solid	12/13/12 15:20	12/15/12 10:03
680-85860-44	CV0511OOO-CS	Solid	12/13/12 15:55	12/15/12 10:03
680-85860-45	CV0511PPP-CS	Solid	12/13/12 15:58	12/15/12 10:03
680-85860-46	CV0511QQQ-CS	Solid	12/13/12 16:00	12/15/12 10:03
680-85860-47	CV0511RRR-CS	Solid	12/13/12 16:10	12/15/12 10:03
680-85860-48	CV0511AD-GS	Solid	12/13/12 13:30	12/15/12 10:03
680-85860-49	CV0511UU-CS	Solid	12/13/12 10:30	12/15/12 10:03
680-85860-50	CV0511VV-CS	Solid	12/13/12 10:50	12/15/12 10:03
680-85860-51	CV0511WW-CS	Solid	12/13/12 10:53	12/15/12 10:03
680-85860-52	CV0511XX-CS	Solid	12/13/12 10:59	12/15/12 10:03
680-85860-53	CV0511YY-CS	Solid	12/13/12 11:10	12/15/12 10:03
680-85860-54	CV0511ZZ-CS	Solid	12/13/12 11:30	12/15/12 10:03
680-85860-55	CV0621A-CS	Solid	12/13/12 13:50	12/15/12 10:03
680-85860-56	CV0621B-CS	Solid	12/13/12 13:58	12/15/12 10:03
680-85860-57	CV0621C-CS	Solid	12/13/12 13:40	12/15/12 10:03
680-85860-58	CV0621C-CSD	Solid	12/13/12 13:45	12/15/12 10:03
680-85860-59	CV0510A-CS	Solid	12/13/12 14:26	12/15/12 10:03
680-85860-60	CV0510B-CS	Solid	12/13/12 14:21	12/15/12 10:03

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12

**ATTACHMENT B**

**FIELD DUPLICATE EVALUATION**

## Evaluation of Field Duplicate Results

Attachment B

Analyte	CV0621C-CS 680-85860-57	RL	680-85860-58 680-85534-51	RL	Unit	Avg. RLx5	RPD	Absolute difference	2x Avg RL	Action				
Acenaphthene	95	85		84	J	87	μg/kg	430	NA	11	172	None, absolute difference ≤ 2x Avg RL		
Acenaphthylene	120	85		99		87	μg/kg	430	NA	21	172	None, absolute difference ≤ 2x Avg RL		
Benzo(a)pyrene	50	J	85			51	J	87	μg/kg	430	NA	1	172	None, absolute difference ≤ 2x Avg RL
Benzo(b)fluoranthene	230	85		250		87	μg/kg	430	NA	20	172	None, absolute difference ≤ 2x Avg RL		
Benzo(g,h,i)perylene	260	85		250		87	μg/kg	430	NA	10	172	None, absolute difference ≤ 2x Avg RL		
Benzo(k)fluoranthene	470	85		460		87	μg/kg	430	2	NA	NA	None, RPD ≤ 50%		
Chrysene	190	85		160		87	μg/kg	430	NA	30	172	None, absolute difference ≤ 2x Avg RL		
Dibenz(a,h)anthracene	160	85		200		87	μg/kg	430	NA	40	172	None, absolute difference ≤ 2x Avg RL		
Fluoranthene	350	85		340		87	μg/kg	430	NA	10	172	None, absolute difference ≤ 2x Avg RL		
Fluorene	62	J	85			64	J	87	μg/kg	430	NA	2	172	None, absolute difference ≤ 2x Avg RL
Indeno(1,2,3-cd)pyrene	420	85		440		87	μg/kg	430	NA	20	172	None, absolute difference ≤ 2x Avg RL		
2-Methylnaphthalene	140	85		130		87	μg/kg	430	NA	10	172	None, absolute difference ≤ 2x Avg RL		
Naphthalene	92	85		82	J	87	μg/kg	430	NA	10	172	None, absolute difference ≤ 2x Avg RL		
Phenanthrone	360	85		340		87	μg/kg	430	NA	20	172	None, absolute difference ≤ 2x Avg RL		
Pyrene	270	85		260		87	μg/kg	430	NA	10	172	None, absolute difference ≤ 2x Avg RL		

Note: If the analyte was not detected, then the cell was left blank.

μg/kg - micrograms per kilogram

NA - Not applicable

RL - Reporting limit

RPD - Relative percent difference

Precision is based on either the absolute difference between sample results or RPD. If the sample results are less than or equal to 5x's the RL, then precision is based on the absolute difference between duplicate results. If sample results >5x's RL, then precision is evaluated using RPD. J-Flag sample results whenever the absolute difference is greater than the RL (2x for soils) or the RPD >20% (50% for soil). Table above presents the results for detected analytes only.

**ATTACHMENT C**

**DATA PACKAGE ADDENDUM**

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah

Job No.: 680-85860-3

SDG No.: 68085860-3

Lab File ID: k11402t.d

DFTPP Injection Date: 12/14/2012

Instrument ID: MSK

DFTPP Injection Time: 07:59

Analysis Batch No.: 259918

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	11.5
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	12.8
70	Less than 2.0 % of mass 69	0.1 (1.0)1
127	10.0 - 80.0 % of mass 442	25.5
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	53.1
199	5.0 - 9.0 % of mass 198	3.8 (7.2)2
275	10.0 - 60.0 % of mass 442	14.5
365	Greater than 1.0 % of mass 442	2.4
441	Present but less than mass 443	0.0
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.2

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 680-259918/2	k11403q.d	12/14/2012	08:15
	IC 680-259918/3	k11404q.d	12/14/2012	08:39
	IC 680-259918/4	k11405q.d	12/14/2012	09:02
	IC 680-259918/5	k11406q.d	12/14/2012	09:25
	IC 680-259918/6	k11407q.d	12/14/2012	09:49
	IC 680-259918/7	k11408q.d	12/14/2012	10:12
	ICIS 680-259918/8	k11409q.d	12/14/2012	10:35
	ICV 680-259918/9	k11410q.d	12/14/2012	10:58

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah Job No.: 680-85860-3  
SDG No.: 68085860-3  
Lab File ID: k12102t.d DFTPP Injection Date: 12/21/2012  
Instrument ID: MSK DFTPP Injection Time: 08:47  
Analysis Batch No.: 261200

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	14.8
68	Less than 2.0 % of mass 69	0.2 (1.0)1
69	Mass 69 relative abundance	15.5
70	Less than 2.0 % of mass 69	0.2 (1.3)1
127	10.0 - 80.0 % of mass 442	28.6
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	59.8
199	5.0 - 9.0 % of mass 198	4.1 (6.9)2
275	10.0 - 60.0 % of mass 442	17.0
365	Greater than 1.0 % of mass 442	2.1
441	Present but less than mass 443	16.3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.1

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 680-261200/2	k12103q.d	12/21/2012	09:04
	MB 680-260536/24-A	k12107.d	12/21/2012	10:40
	LCS 680-260536/21-A	k12110.d	12/21/2012	11:50
CV0511AD-GS	680-85860-48	k12128.d	12/21/2012	18:52

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah

Job No.: 680-85860-3

SDG No.: 68085860-3

Lab File ID: k12611t.d DFTPP Injection Date: 12/26/2012

Instrument ID: MSK DFTPP Injection Time: 14:51

Analysis Batch No.: 261203

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	10.8
68	Less than 2.0 % of mass 69	0.0 (0.2)1
69	Mass 69 relative abundance	11.4
70	Less than 2.0 % of mass 69	0.1 (0.9)1
127	10.0 - 80.0 % of mass 442	23.6
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	52.0
199	5.0 - 9.0 % of mass 198	3.5 (6.7)2
275	10.0 - 60.0 % of mass 442	14.2
365	Greater than 1.0 % of mass 442	2.1
441	Present but less than mass 443	0.0
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.3

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 680-261203/2	k12612q.d	12/26/2012	15:08
	IC 680-261203/3	k12613q.d	12/26/2012	15:31
	IC 680-261203/4	k12614q.d	12/26/2012	15:55
	IC 680-261203/5	k12615q.d	12/26/2012	16:18
	IC 680-261203/6	k12616q.d	12/26/2012	16:41
	IC 680-261203/7	k12617q.d	12/26/2012	17:04
	ICIS 680-261203/8	k12618q.d	12/26/2012	17:28
	ICV 680-261203/9	k12619q.d	12/26/2012	17:51
CV0511MMM-CS	680-85860-42	k12622.d	12/26/2012	19:01

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah Job No.: 680-85860-3  
SDG No.: 68085860-3  
Lab File ID: y12105t.d DFTPP Injection Date: 12/21/2012  
Instrument ID: MSY DFTPP Injection Time: 10:58  
Analysis Batch No.: 261214

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	19.5
68	Less than 2.0 % of mass 69	0.4 (2.0)1
69	Mass 69 relative abundance	20.6
70	Less than 2.0 % of mass 69	0.3 (1.3)1
127	10.0 - 80.0 % of mass 442	31.6
197	Less than 2.0 % of mass 198	0.8 (1.0)2
198	Greater than 50.0 % of mass 442	83.9
199	5.0 - 9.0 % of mass 198	5.3 (6.3)2
275	10.0 - 60.0 % of mass 442	22.2
365	Greater than 1.0 % of mass 442	3.0
441	Present but less than mass 443	14.4
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.6

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 680-261214/2	y12106q.d	12/21/2012	11:14
	IC 680-261214/3	y12107q.d	12/21/2012	11:37
	IC 680-261214/4	y12108q.d	12/21/2012	11:59
	IC 680-261214/5	y12109q.d	12/21/2012	12:22
	IC 680-261214/6	y12110q.d	12/21/2012	12:44
	IC 680-261214/7	y12111q.d	12/21/2012	13:07
	ICIS 680-261214/8	y12112q.d	12/21/2012	13:30
	ICV 680-261214/9	y12113q.d	12/21/2012	13:52
CV0511UU-CS MS	680-85860-49 MS	y12117ms.d	12/21/2012	16:31

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah

Job No.: 680-85860-3

SDG No.: 68085860-3

Lab File ID: y12125t.d

DFTPP Injection Date: 12/21/2012

Instrument ID: MSY

DFTPP Injection Time: 19:15

Analysis Batch No.: 261204

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	44.1
68	Less than 2.0 % of mass 69	0.7 (1.5)1
69	Mass 69 relative abundance	45.7
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 442	68.7
197	Less than 2.0 % of mass 198	1.5 (1.0)2
198	Greater than 50.0 % of mass 442	142.1
199	5.0 - 9.0 % of mass 198	9.5 (6.7)2
275	10.0 - 60.0 % of mass 442	31.4
365	Greater than 1.0 % of mass 442	2.5
441	Present but less than mass 443	15.3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.6

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 680-261204/2	y12126q.d	12/21/2012	19:31
CV0511YY-CS	680-85860-53	y12128.d	12/21/2012	20:16
CV0511ZZ-CS	680-85860-54	y12129.d	12/21/2012	20:39
CV0621A-CS	680-85860-55	y12130.d	12/21/2012	21:01
CV0621B-CS	680-85860-56	y12131.d	12/21/2012	21:24
CV0510B-CS	680-85860-60	y12132.d	12/21/2012	21:47
CV0511UU-CS	680-85860-49	y12133.d	12/21/2012	22:09
CV0621C-CSD	680-85860-58	y12134.d	12/21/2012	22:32
CV0510A-CS	680-85860-59	y12135.d	12/21/2012	22:54
CV0621C-CS	680-85860-57	y12136.d	12/21/2012	23:17
CV0511LLL-CS	680-85860-41	y12137.d	12/21/2012	23:39
CV0511NNN-CS	680-85860-43	y12138.d	12/22/2012	00:02
CV0511000-CS	680-85860-44	y12139.d	12/22/2012	00:25
CV0511PPP-CS	680-85860-45	y12140.d	12/22/2012	00:47
CV0511VV-CS	680-85860-50	y12141.d	12/22/2012	01:10
CV0511WW-CS	680-85860-51	y12142.d	12/22/2012	01:32
CV0511XX-CS	680-85860-52	y12143.d	12/22/2012	01:55
CV0511QQQ-CS	680-85860-46	y12144.d	12/22/2012	02:17
CV0511RRR-CS	680-85860-47	y12145.d	12/22/2012	02:39

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah Job No.: 680-85860-3  
SDG No.: 68085860-3  
Lab File ID: yl2701t.d DFTPP Injection Date: 12/27/2012  
Instrument ID: MSY DFTPP Injection Time: 13:57  
Analysis Batch No.: 261231

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	29.5
68	Less than 2.0 % of mass 69	0.4 (1.3)1
69	Mass 69 relative abundance	32.4
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 442	46.8
197	Less than 2.0 % of mass 198	1.0 (0.9)2
198	Greater than 50.0 % of mass 442	109.6
199	5.0 - 9.0 % of mass 198	8.0 (7.3)2
275	10.0 - 60.0 % of mass 442	26.7
365	Greater than 1.0 % of mass 442	3.6
441	Present but less than mass 443	14.3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	20.7

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 680-261231/2	yl2702q.d	12/27/2012	14:13
CV0511UU-CS MSD	680-85860-49 MSD	yl2707.d	12/27/2012	16:46

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah

Job No.: 680-85860-3

SDG No.: 68085860-3

Lab Sample ID: ICV 680-259918/9

Calibration Date: 12/14/2012 10:58

Instrument ID: MSK

Calib Start Date: 12/14/2012 08:15

GC Column: RXi- 5Sil MS ID: 0.25 (mm)

Calib End Date: 12/14/2012 10:35

Lab File ID: k11410q.d

Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.181	1.140		6.70	2.00	-3.5	20.0
2-Methylnaphthalene	Ave	0.7535	0.7529		6.70	2.00	-0.0	20.0
1-Methylnaphthalene	Ave	0.7648	0.6984		6.70	2.00	-8.7	20.0
Acenaphthylene	Ave	2.036	1.815		6.70	2.00	-10.8	20.0
Acenaphthene	Ave	1.178	1.126		6.70	2.00	-4.4	20.0
Fluorene	Ave	1.354	1.280		6.70	2.00	-5.5	20.0
Phenanthrene	Ave	1.289	1.168		6.70	2.00	-9.4	20.0
Anthracene	Ave	1.277	1.169		6.70	2.00	-8.5	20.0
Fluoranthene	Ave	1.375	1.255		6.70	2.00	-8.7	20.0
Pyrene	Ave	1.505	1.414		6.70	2.00	-6.0	20.0
Benzo[a]anthracene	Ave	1.349	1.252		6.70	2.00	-7.2	20.0
Chrysene	Ave	1.310	1.156		6.70	2.00	-11.8	20.0
Benzo[b]fluoranthene	Ave	1.396	1.303		6.70	2.00	-6.6	20.0
Benzo[k]fluoranthene	Ave	1.351	1.245		6.70	2.00	-7.8	20.0
Benzo[a]pyrene	Ave	1.124	1.101		1.96	2.00	-2.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.244	1.043		6.70	2.00	-16.2	20.0
Dibenz(a,h)anthracene	Ave	1.039	0.8858		6.70	2.00	-14.7	20.0
Benzo[g,h,i]perylene	Ave	1.097	0.9507		6.70	2.00	-13.3	20.0
o-Terphenyl	Ave	0.8562	0.8292		1.94	2.00	-3.1	20.0

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C  
Data file : /chem/SM/MSK5973.i/1k121412.b/k11410q.d  
Lab Smp Id: CCV-2898487; LLPAH  
Inj Date : 14-DEC-2012 10:58  
Operator : LEG Inst ID: MSK5973.i  
Smp Info : CCV-2898487; LLPAH  
Misc Info :  
Comment : analysis of PAHs  
Method : /chem/SM/MSK5973.i/1k121412.b/k-b8270CLLPAH-m.m  
Meth Date : 14-Dec-2012 12:06 chemist Quant Type: ISTD  
Cal Date : 14-DEC-2012 10:35 Cal File: k11409q.d  
Als bottle: 10 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: TL2007.sub  
Target Version: 3.50  
Processing Host: savchem1

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.906	4.906 (1.000)		1009336	2.00000	
	2 Naphthalene	128	4.930	4.930 (1.005)		1150974	2.00000	1.93
	3 2-Methylnaphthalene	142	5.617	5.617 (1.145)		759938	2.00000	1.99
	4 1-Methylnaphthalene	142	5.717	5.717 (1.165)		704923	2.00000	1.82
	6 Acenaphthylene	152	6.569	6.569 (0.977)		1034205	2.00000	1.78
*	5 Acenaphthene-d10	164	6.722	6.722 (1.000)		569776	2.00000	
	7 Acenaphthene	154	6.757	6.757 (1.005)		641778	2.00000	1.91
	8 Fluorene	166	7.321	7.321 (1.089)		729229	2.00000	1.89
*	9 Phenanthrene-d10	188	8.355	8.355 (1.000)		809918	2.00000	
	10 Phenanthrene	178	8.379	8.379 (1.003)		945961	2.00000	1.81
	11 Anthracene	178	8.437	8.437 (1.010)		946402	2.00000	1.83
\$	15 o-Terphenyl	230	8.767	8.767 (0.784)		601536	2.00000	1.93
	12 Fluoranthene	202	9.665	9.665 (1.157)		1016210	2.00000	1.82
	14 Pyrene	202	9.912	9.912 (0.886)		1026067	2.00000	1.87
	16 Benzo(a)Anthracene	228	11.170	11.170 (0.999)		907914	2.00000	1.85
*	13 Chrysene-d12	240	11.181	11.181 (1.000)		725404	2.00000	
	17 Chrysene	228	11.211	11.211 (1.003)		838811	2.00000	1.76
	19 Benzo(b)fluoranthene	252	12.468	12.468 (0.958)		894443	2.00000	1.86
	20 Benzo(k)fluoranthene	252	12.503	12.503 (0.960)		854825	2.00000	1.84
	21 Benzo(a)pyrene	252	12.938	12.938 (0.994)		756038	2.00000	1.96
*	18 Perylene-d12	264	13.020	13.020 (1.000)		686421	2.00000	
	22 Indeno(1,2,3-cd)pyrene	276	14.942	14.942 (1.336)		756445	2.00000	1.67
	23 Dibenzo(a,h)anthracene	278	14.977	14.977 (1.150)		608002	2.00000	1.70
	24 Benzo(g,h,i)perylene	276	15.529	15.529 (1.193)		652587	2.00000	1.73

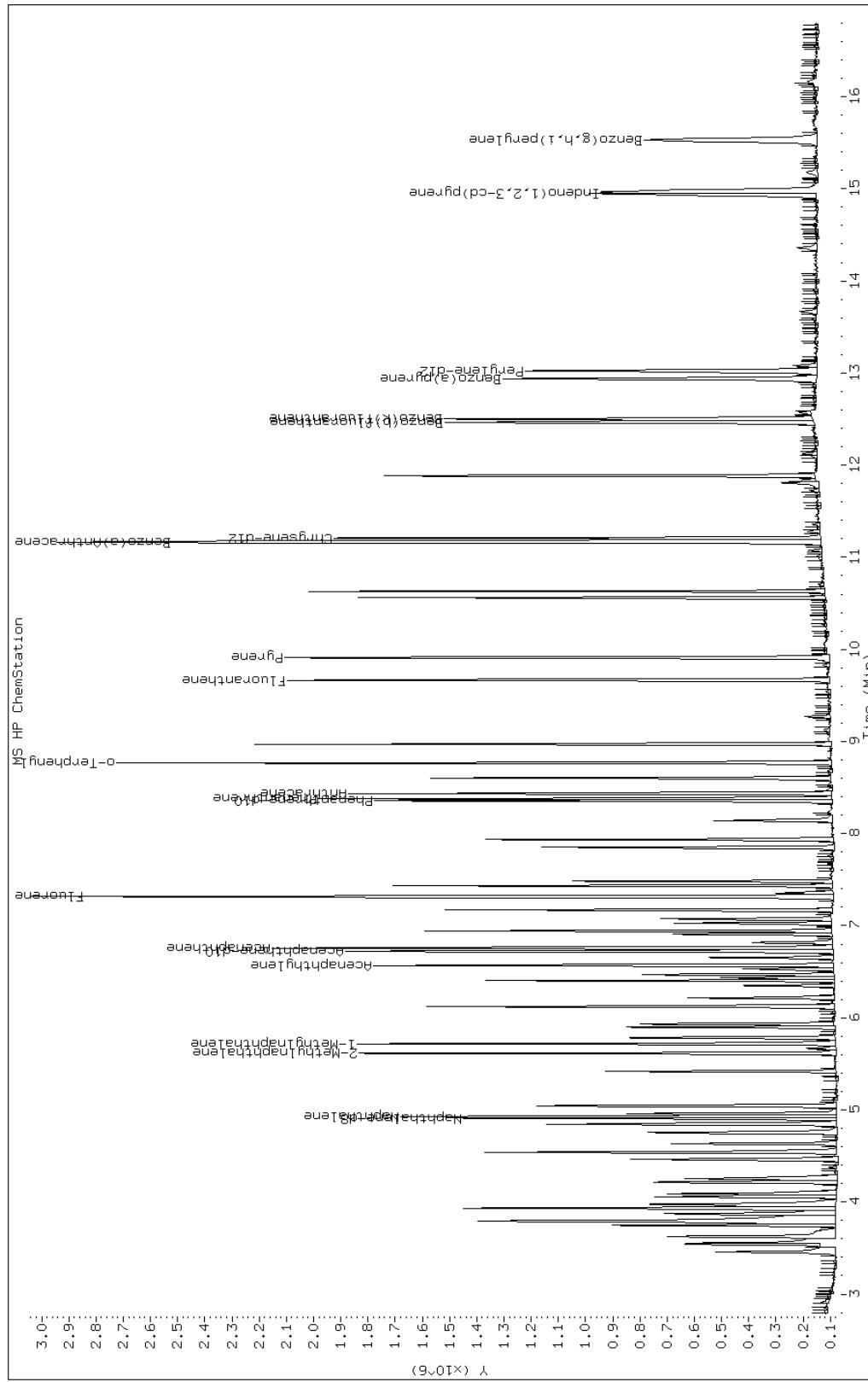
Data File: k11410q.d

Date: 14-DEC-2012 10:58

C1ient TD:

Instrument: MSK5973.i

Sample Info: CCV-2898487: I.I.PAH



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah

Job No.: 680-85860-3

SDG No.: 68085860-3

Lab Sample ID: ICV 680-261203/9

Calibration Date: 12/26/2012 17:51

Instrument ID: MSK

Calib Start Date: 12/26/2012 15:08

GC Column: RXi- 5Sil MS ID: 0.25 (mm)

Calib End Date: 12/26/2012 17:28

Lab File ID: k12619q.d

Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.168	1.095		6.70	2.00	-6.2	20.0
2-Methylnaphthalene	Ave	0.7285	0.7386		6.70	2.00	1.4	20.0
1-Methylnaphthalene	Ave	0.7444	0.6860		6.70	2.00	-7.8	20.0
Acenaphthylene	Ave	1.960	1.795		6.70	2.00	-8.4	20.0
Acenaphthene	Ave	1.154	1.093		6.70	2.00	-5.3	20.0
Fluorene	Ave	1.310	1.250		6.70	2.00	-4.6	20.0
Phenanthrene	Ave	1.276	1.193		6.70	2.00	-6.5	20.0
Anthracene	Ave	1.188	1.150		6.70	2.00	-3.2	20.0
Fluoranthene	Ave	1.270	1.223		6.70	2.00	-3.7	20.0
Pyrene	Ave	1.710	1.495		6.70	2.00	-12.6	20.0
Benzo[a]anthracene	Ave	1.271	1.218		6.70	2.00	-4.2	20.0
Chrysene	Ave	1.293	1.124		6.70	2.00	-13.1	20.0
Benzo[b]fluoranthene	Ave	1.418	1.353		6.70	2.00	-4.6	20.0
Benzo[k]fluoranthene	Ave	1.453	1.268		6.70	2.00	-12.8	20.0
Benzo[a]pyrene	Ave	1.092	1.091		2.00	2.00	-0.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.034	1.044		6.70	2.00	0.9	20.0
Dibenz(a,h)anthracene	Ave	0.9861	0.9684		6.70	2.00	-1.8	20.0
Benzo[g,h,i]perylene	Ave	0.998	0.9596		6.70	2.00	-3.9	20.0
o-Terphenyl	Ave	1.041	0.8924		1.71	2.00	-14.3	20.0

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C  
Data file : /chem/SM/MSK5973.i/1k122612.b/k12619q.d  
Lab Smp Id: ICV-2898487; LLPAH  
Inj Date : 26-DEC-2012 17:51  
Operator : LEG Inst ID: MSK5973.i  
Smp Info : ICV-2898487; LLPAH  
Misc Info :  
Comment : analysis of PAHs  
Method : /chem/SM/MSK5973.i/1k122612.b/k-b8270CLLPAH-m.m  
Meth Date : 27-Dec-2012 09:43 chemist Quant Type: ISTD  
Cal Date : 26-DEC-2012 17:28 Cal File: k12618q.d  
Als bottle: 10 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: TL2007.sub  
Target Version: 3.50  
Processing Host: savchem1

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.671	4.671 (1.000)		564462	2.00000	
	2 Naphthalene	128	4.689	4.689 (1.004)		618305	2.00000	1.87
	3 2-Methylnaphthalene	142	5.364	5.364 (1.148)		416906	2.00000	2.02
	4 1-Methylnaphthalene	142	5.470	5.470 (1.171)		387240	2.00000	1.84
	6 Acenaphthylene	152	6.316	6.316 (0.977)		577964	2.00000	1.83
*	5 Acenaphthene-d10	164	6.463	6.463 (1.000)		321970	2.00000	
	7 Acenaphthene	154	6.498	6.498 (1.005)		351907	2.00000	1.89
	8 Fluorene	166	7.056	7.056 (1.092)		402417	2.00000	1.90
*	9 Phenanthrene-d10	188	8.085	8.085 (1.000)		436386	2.00000	
	10 Phenanthrene	178	8.108	8.108 (1.003)		520670	2.00000	1.87
	11 Anthracene	178	8.167	8.167 (1.010)		501856	2.00000	1.93
\$	15 o-Terphenyl	230	8.496	8.496 (0.777)		326341	2.00000	1.71
	12 Fluoranthene	202	9.401	9.401 (1.163)		533494	2.00000	1.92
	14 Pyrene	202	9.642	9.642 (0.882)		546557	2.00000	1.74 (H)
	16 Benzo(a)Anthracene	228	10.917	10.917 (0.998)		445479	2.00000	1.91
*	13 Chrysene-d12	240	10.934	10.934 (1.000)		365710	2.00000	
	17 Chrysene	228	10.958	10.958 (1.002)		410898	2.00000	1.73
	19 Benzo(b)fluoranthene	252	12.139	12.139 (0.960)		445584	2.00000	1.90
	20 Benzo(k)fluoranthene	252	12.168	12.168 (0.962)		417484	2.00000	1.74
	21 Benzo(a)pyrene	252	12.574	12.574 (0.994)		359173	2.00000	1.99
*	18 Perylene-d12	264	12.650	12.650 (1.000)		329355	2.00000	
	22 Indeno(1,2,3-cd)pyrene	276	14.377	14.377 (1.315)		381651	2.00000	2.01
	23 Dibenzo(a,h)anthracene	278	14.401	14.401 (1.138)		318933	2.00000	1.96
	24 Benzo(g,h,i)perylene	276	14.906	14.906 (1.178)		316045	2.00000	1.92

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: k12619q.d

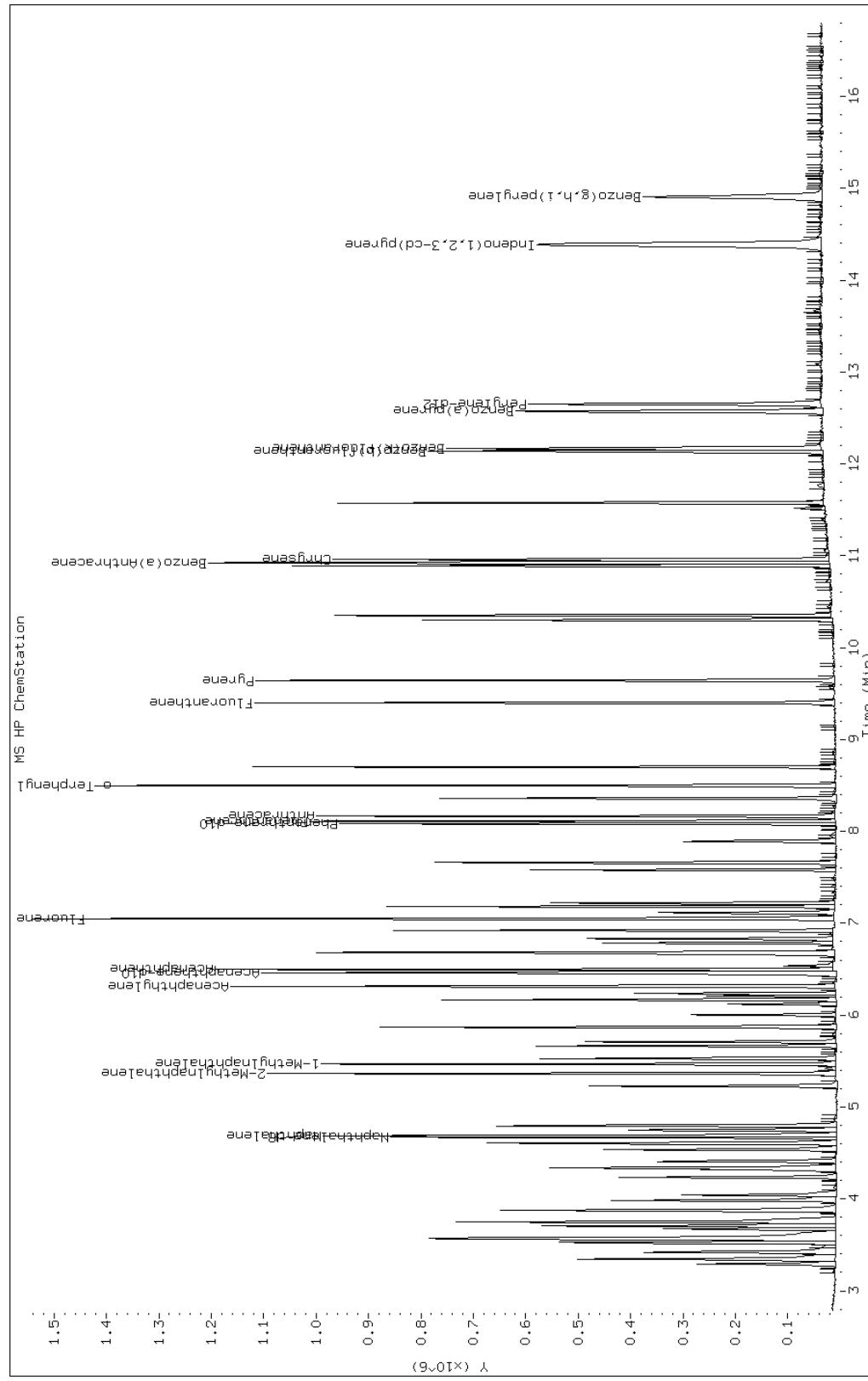
Date: 26-DEC-2012 17:51

Client TD.

Instrument • MSK5973 i

Samp] e Tnfo: TCV-2898487: TI:PAH

Operator: TEG



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah

Job No.: 680-85860-3

SDG No.: 68085860-3

Lab Sample ID: ICV 680-261214/9

Calibration Date: 12/21/2012 13:52

Instrument ID: MSY

Calib Start Date: 12/21/2012 11:14

GC Column: HP-5MS ID: 0.25 (mm)

Calib End Date: 12/21/2012 13:30

Lab File ID: yl2113q.d

Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.179	1.128		6.70	2.00	-4.3	20.0
2-Methylnaphthalene	Ave	0.7356	0.7321		6.70	2.00	-0.5	20.0
1-Methylnaphthalene	Ave	0.7741	0.7035		6.70	2.00	-9.1	20.0
Acenaphthylene	Ave	2.067	1.863		6.70	2.00	-9.8	20.0
Acenaphthene	Ave	1.225	1.106		6.70	2.00	-9.8	20.0
Fluorene	Ave	1.374	1.321		6.70	2.00	-3.8	20.0
Phenanthrene	Ave	1.232	1.083		6.70	2.00	-12.1	20.0
Anthracene	Ave	1.178	1.038		6.70	2.00	-11.9	20.0
Fluoranthene	Ave	1.436	1.224		6.70	2.00	-14.8	20.0
Pyrene	Ave	1.815	1.592		6.70	2.00	-12.3	20.0
Benzo[a]anthracene	Ave	1.419	1.233		6.70	2.00	-13.1	20.0
Chrysene	LinF	1.442	1.143		6.70	2.00	-9.6	20.0
Benzo[b]fluoranthene	LinF	1.680	1.414		6.70	2.00	-3.4	20.0
Benzo[k]fluoranthene	LinF	1.641	1.559		2.09	2.00	4.4	20.0
Benzo[a]pyrene	LinF	1.337	1.225		2.03	2.00	1.5	20.0
Indeno[1,2,3-cd]pyrene	LinF	1.311	1.093		6.70	2.00	0.6	20.0
Dibenz(a,h)anthracene	LinF	1.207	1.043		6.70	2.00	2.9	20.0
Benzo[g,h,i]perylene	LinF	1.242	1.028		6.70	2.00	-2.1	20.0
o-Terphenyl	Ave	1.080	0.9695		1.80	2.00	-10.2	20.0

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C  
Data file : /chem/SM/MSY5975.i/1y122112.b/y12113q.d  
Lab Smp Id: ICV-2898487; LLPAH  
Inj Date : 21-DEC-2012 13:52  
Operator : VHB Inst ID: MSY5975.i  
Smp Info : ICV-2898487; LLPAH  
Misc Info :  
Comment : analysis of PAHs  
Method : /chem/SM/MSY5975.i/1y122112.b/Y-b8270CLLPAH-m.m  
Meth Date : 21-Dec-2012 14:11 chemist Quant Type: ISTD  
Cal Date : 21-DEC-2012 13:30 Cal File: y12112q.d  
Als bottle: 10 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: TL2007.sub  
Target Version: 3.50  
Processing Host: savchem1

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.392	3.392 (1.000)		98350	2.00000	
	2 Naphthalene	128	3.413	3.413 (1.006)		110904	2.00000	1.91
	3 2-Methylnaphthalene	142	4.012	4.012 (1.183)		72000	2.00000	1.99
	4 1-Methylnaphthalene	142	4.098	4.098 (1.208)		69187	2.00000	1.81
	6 Acenaphthylene	152	4.788	4.788 (0.975)		109224	2.00000	1.80
*	5 Acenaphthene-d10	164	4.911	4.911 (1.000)		58614	2.00000	
	7 Acenaphthene	154	4.938	4.938 (1.005)		64806	2.00000	1.80
	8 Fluorene	166	5.376	5.376 (1.095)		77458	2.00000	1.92
*	9 Phenanthrene-d10	188	6.162	6.162 (1.000)		89447	2.00000	
	10 Phenanthrene	178	6.178	6.178 (1.003)		96849	2.00000	1.75
	11 Anthracene	178	6.227	6.227 (1.010)		92834	2.00000	1.76
\$	15 o-Terphenyl	230	6.494	6.494 (0.766)		68237	2.00000	1.79
	12 Fluoranthene	202	7.189	7.189 (1.167)		109450	2.00000	1.70
	14 Pyrene	202	7.382	7.382 (0.871)		112023	2.00000	1.75
	16 Benzo(a)Anthracene	228	8.462	8.462 (0.999)		86809	2.00000	1.73
*	13 Chrysene-d12	240	8.473	8.473 (1.000)		70382	2.00000	
	17 Chrysene	228	8.494	8.494 (1.003)		80440	2.00000	1.80
	19 Benzo(b)fluoranthene	252	9.409	9.409 (0.964)		89864	2.00000	1.93
	20 Benzo(k)fluoranthene	252	9.436	9.436 (0.967)		99083	2.00000	2.08
	21 Benzo(a)pyrene	252	9.703	9.703 (0.995)		77876	2.00000	2.03
*	18 Perylene-d12	264	9.757	9.757 (1.000)		63566	2.00000	
	22 Indeno(1,2,3-cd)pyrene	276	10.901	10.901 (1.287)		76902	2.00000	2.01
	23 Dibenzo(a,h)anthracene	278	10.928	10.928 (1.120)		66318	2.00000	2.05
	24 Benzo(g,h,i)perylene	276	11.244	11.244 (1.152)		65321	2.00000	1.95

Data File: y12113q.d

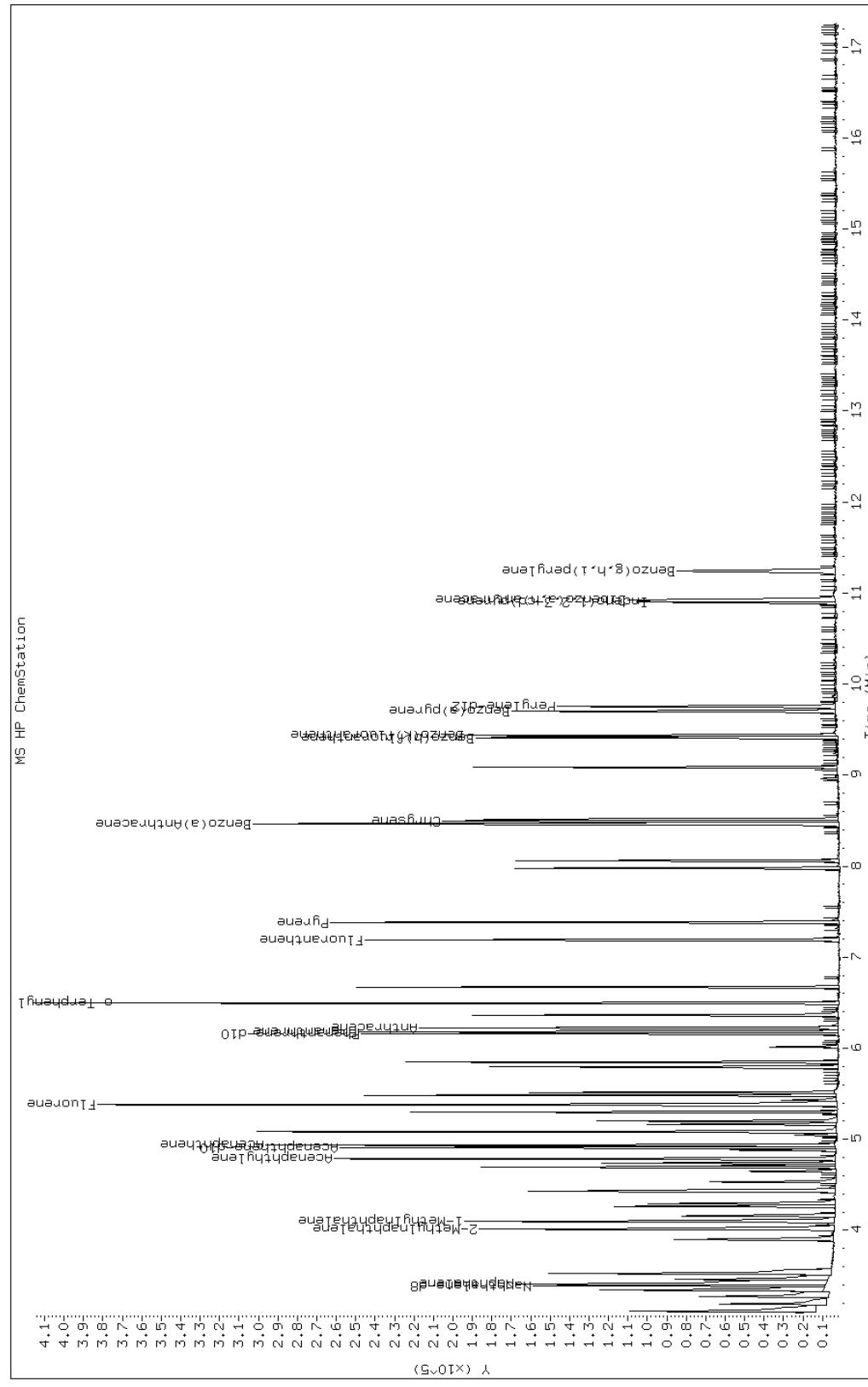
Date: 21-DEC-2012 13:52

Client ID:

Instrument: MSY5975.i

Sample Info: ICV-2898487; LLPAH

Operator: VHB



**ATTACHMENT D**

**CASE NARRATIVE**

## Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-3  
SDG: 68085860-3

**Job ID: 680-85860-3**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-85860-3**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### RECEIPT

The samples were received on 12/15/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.6° C, 4.2° C and 5.6° C. temperature of the coolers at receipt was C.

#### SEMOVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH

Samples CV0511LLL-CS (680-85860-41), CV0511MMM-CS (680-85860-42), CV0511NNN-CS (680-85860-43), CV0511OOO-CS (680-85860-44), CV0511PPP-CS (680-85860-45), CV0511QQQ-CS (680-85860-46), CV0511RRR-CS (680-85860-47), CV0511AD-GS (680-85860-48), CV0511UU-CS (680-85860-49), CV0511VV-CS (680-85860-50), CV0511WW-CS (680-85860-51), CV0511XX-CS (680-85860-52), CV0511YY-CS (680-85860-53), CV0511ZZ-CS (680-85860-54), CV0621A-CS (680-85860-55), CV0621B-CS (680-85860-56), CV0621C-CS (680-85860-57), CV0621C-CSD (680-85860-58), CV0510A-CS (680-85860-59) and CV0510B-CS (680-85860-60) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270C. The samples were prepared on 12/20/2012 and analyzed on 12/21/2012, 12/22/2012 and 12/26/2012.

Samples CV0511LLL-CS (680-85860-41)[10X], CV0511NNN-CS (680-85860-43)[10X], CV0511OOO-CS (680-85860-44)[10X], CV0511PPP-CS (680-85860-45)[10X], CV0511QQQ-CS (680-85860-46)[10X], CV0511RRR-CS (680-85860-47)[10X], CV0511UU-CS (680-85860-49)[10X], CV0511VV-CS (680-85860-50)[10X], CV0511WW-CS (680-85860-51)[10X], CV0511XX-CS (680-85860-52)[10X], CV0511YY-CS (680-85860-53)[10X], CV0511ZZ-CS (680-85860-54)[10X], CV0621A-CS (680-85860-55)[10X], CV0621B-CS (680-85860-56)[10X], CV0621C-CS (680-85860-57)[10X], CV0621C-CSD (680-85860-58)[10X], CV0510A-CS (680-85860-59)[10X] and CV0510B-CS (680-85860-60)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly. o-Terphenyl recovered outside the surrogate recovery criteria for these samples as they were diluted beyond the quantitation limit.

No other difficulties were encountered during the Low-Level PAH analyses.

All other quality control parameters were within the acceptance limits.

**ATTACHMENT E**

**QUALIFIED SAMPLE RESULTS**

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-3  
 SDG: 68085860-3

## Client Sample ID: CV0511LLL-CS

Date Collected: 12/13/12 15:00  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-41

Matrix: Solid  
 Percent Solids: 69.7

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	95	U	95	44	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
2-Methylnaphthalene	49	J	95	47	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Acenaphthene	95	U	95	47	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Acenaphthylene	95	U	95	47	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Anthracene	95	U	95	47	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Benzo[a]anthracene	180		95	47	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Benzo[a]pyrene	230		95	17	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Benzo[b]fluoranthene	330		95	47	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Benzo[g,h,i]perylene	120		95	47	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Benzo[k]fluoranthene	110		95	28	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Chrysene	240		95	47	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Dibenz(a,h)anthracene	95	U	95	47	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Fluoranthene	410		95	47	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Fluorene	95	U	95	47	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Indeno[1,2,3-cd]pyrene	120	J	95	47	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Naphthalene	48	J	95	47	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Pyrene	310		95	47	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
Phenanthrene	200		95	34	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:39	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	D			36 - 131		12/20/12 16:11	12/21/12 23:39	10

## Client Sample ID: CV0511MMM-CS

Date Collected: 12/13/12 15:36  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-42

Matrix: Solid  
 Percent Solids: 68.6

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	7.3	J	9.6	4.5	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
2-Methylnaphthalene	11	J	9.6	4.7	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Acenaphthene	7.3	J	9.6	4.7	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Acenaphthylene	9.6	U J	9.6	4.7	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Anthracene	10	J	9.6	4.7	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Benzo[a]anthracene	45		9.6	4.7	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Benzo[a]pyrene	42		9.6	1.7	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Benzo[b]fluoranthene	64		9.6	4.7	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Benzo[g,h,i]perylene	20		9.6	4.7	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Benzo[k]fluoranthene	25		9.6	2.9	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Chrysene	56	↓	9.6	4.7	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Dibenz(a,h)anthracene	7.5	J	9.6	4.7	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Fluoranthene	120	J	9.6	4.7	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Fluorene	5.0	J	9.6	4.7	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Indeno[1,2,3-cd]pyrene	18	↓	9.6	4.7	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Naphthalene	12		9.6	4.7	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Pyrene	96		9.6	4.7	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
Phenanthrene	65	↓	9.6	3.4	ug/Kg	⊗	12/20/12 16:11	12/26/12 19:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	10	X			36 - 131		12/20/12 16:11	12/26/12 19:01	1

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

# **Client Sample Results**

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-3  
SDG: 68085860-3

**Client Sample ID: CV0511NNN-CS**

**Date Collected:** 12/13/12 15:20

Date Received: 12/15/12 10:03

**Lab Sample ID: 680-85860-43**

## **Matrix: Solid**

**Percent Solids: 86.9**

**Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	77	U J	77	35	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
2-Methylnaphthalene	77	U J	77	38	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
<b>Acenaphthene</b>	<b>170</b>	<b>J</b>	77	38	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
Acenaphthylene	77	U J	77	38	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
<b>Anthracene</b>	<b>380</b>	<b>J</b>	77	38	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
<b>Benzo[a]anthracene</b>	<b>3500</b>		77	38	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
<b>Benzo[a]pyrene</b>	<b>4100</b>		77	14	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
<b>Benzo[b]fluoranthene</b>	<b>5700</b>		77	38	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
<b>Benzo[g,h,i]perylene</b>	<b>1800</b>		77	38	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
<b>Benzo[k]fluoranthene</b>	<b>2100</b>		77	23	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
<b>Chrysene</b>	<b>3700</b>		77	38	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
<b>Dibenz(a,h)anthracene</b>	<b>640</b>		77	38	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
<b>Fluoranthene</b>	<b>6300</b>		77	38	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
<b>Fluorene</b>	<b>96</b>	↓	77	38	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
<b>Indeno[1,2,3-cd]pyrene</b>	<b>1900</b>	<b>J</b>	77	38	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
Naphthalene	77	U J	77	38	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
<b>Pyrene</b>	<b>5300</b>	<b>J</b>	77	38	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
<b>Phenanthrene</b>	<b>1900</b>	<b>J</b>	77	27	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:02	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	0	D	36 - 131				12/20/12 16:11	12/22/12 00:02	10

**Client Sample ID: CV0511000-CS**

**Lab Sample ID: 680-85860-44**

Date Collected: 12/13/12 15:55

Date Received: 12/15/12 10:03

**Method: 8270C LL PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	99		90	42	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
2-Methylnaphthalene	150		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Acenaphthene	300		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Acenaphthylene	90	U	90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Anthracene	520		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Benzo[a]anthracene	2300		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Benzo[a]pyrene	2200		90	16	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Benzo[b]fluoranthene	3200		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Benzo[g,h,i]perylene	940		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Benzo[k]fluoranthene	1500		90	27	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Chrysene	2800		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Dibenz(a,h)anthracene	390		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Fluoranthene	4800		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Fluorene	270		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Indeno[1,2,3-cd]pyrene	910	J	90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Naphthalene	210		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Pyrene	4000		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
Phenanthrene	3000		90	32	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:25	10
<b>Surrogate</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
o-Terphenyl		0	D	36 - 131			12/20/12 16:11	12/22/12 00:25	10

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-3  
 SDG: 68085860-3

## Client Sample ID: CV0511PPP-CS

Date Collected: 12/13/12 15:58  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-45

Matrix: Solid  
 Percent Solids: 72.6

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	95		92	42	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
2-Methylnaphthalene	120		92	45	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Acenaphthene	320		92	45	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Acenaphthylene	92	U	92	45	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Anthracene	690		92	45	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Benzo[a]anthracene	3000		92	45	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Benzo[a]pyrene	2700		92	16	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Benzo[b]fluoranthene	3600		92	45	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Benzo[g,h,i]perylene	1000		92	45	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Benzo[k]fluoranthene	1700		92	27	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Chrysene	3200		92	45	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Dibenz(a,h)anthracene	430		92	45	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Fluoranthene	5600		92	45	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Fluorene	290		92	45	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Indeno[1,2,3-cd]pyrene	1100	J	92	45	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Naphthalene	130		92	45	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Pyrene	4300		92	45	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
Phenanthrene	3100		92	33	ug/Kg	⊗	12/20/12 16:11	12/22/12 00:47	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	D			36 - 131		12/20/12 16:11	12/22/12 00:47	10

## Client Sample ID: CV0511QQQ-CS

Date Collected: 12/13/12 16:00  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-46

Matrix: Solid  
 Percent Solids: 73.2

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	71	J	90	42	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
2-Methylnaphthalene	110		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Acenaphthene	240		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Acenaphthylene	90	U	90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Anthracene	580		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Benzo[a]anthracene	2400		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Benzo[a]pyrene	2500		90	16	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Benzo[b]fluoranthene	3400		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Benzo[g,h,i]perylene	1000		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Benzo[k]fluoranthene	1600		90	27	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Chrysene	2900		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Dibenz(a,h)anthracene	390		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Fluoranthene	4900		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Fluorene	230		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Indeno[1,2,3-cd]pyrene	990	J	90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Naphthalene	130		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Pyrene	3800		90	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
Phenanthrene	2500		90	32	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:17	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	D			36 - 131		12/20/12 16:11	12/22/12 02:17	10

1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11  
 12  
 13  
 14  
 15  
 16  
 17  
 18  
 19  
 20  
 21  
 22  
 23  
 24  
 25  
 26  
 27  
 28  
 29  
 30  
 31  
 32  
 33  
 34  
 35  
 36  
 37  
 38  
 39  
 40  
 41  
 42  
 43  
 44  
 45  
 46  
 47  
 48  
 49  
 50  
 51  
 52  
 53  
 54  
 55  
 56  
 57  
 58  
 59  
 60  
 61  
 62  
 63  
 64  
 65  
 66  
 67  
 68  
 69  
 70  
 71  
 72  
 73  
 74  
 75  
 76  
 77  
 78  
 79  
 80  
 81  
 82  
 83  
 84  
 85  
 86  
 87  
 88  
 89  
 90  
 91  
 92  
 93  
 94  
 95  
 96  
 97  
 98  
 99  
 100  
 101  
 102  
 103  
 104  
 105  
 106  
 107  
 108  
 109  
 110  
 111  
 112  
 113  
 114  
 115  
 116  
 117  
 118  
 119  
 120  
 121  
 122  
 123  
 124  
 125  
 126  
 127  
 128  
 129  
 130  
 131  
 132  
 133  
 134  
 135  
 136  
 137  
 138  
 139  
 140  
 141  
 142  
 143  
 144  
 145  
 146  
 147  
 148  
 149  
 150  
 151  
 152  
 153  
 154  
 155  
 156  
 157  
 158  
 159  
 160  
 161  
 162  
 163  
 164  
 165  
 166  
 167  
 168  
 169  
 170  
 171  
 172  
 173  
 174  
 175  
 176  
 177  
 178  
 179  
 180  
 181  
 182  
 183  
 184  
 185  
 186  
 187  
 188  
 189  
 190  
 191  
 192  
 193  
 194  
 195  
 196  
 197  
 198  
 199  
 200  
 201  
 202  
 203  
 204  
 205  
 206  
 207  
 208  
 209  
 210  
 211  
 212  
 213  
 214  
 215  
 216  
 217  
 218  
 219  
 220  
 221  
 222  
 223  
 224  
 225  
 226  
 227  
 228  
 229  
 230  
 231  
 232  
 233  
 234  
 235  
 236  
 237  
 238  
 239  
 240  
 241  
 242  
 243  
 244  
 245  
 246  
 247  
 248  
 249  
 250  
 251  
 252  
 253  
 254  
 255  
 256  
 257  
 258  
 259  
 260  
 261  
 262  
 263  
 264  
 265  
 266  
 267  
 268  
 269  
 270  
 271  
 272  
 273  
 274  
 275  
 276  
 277  
 278  
 279  
 280  
 281  
 282  
 283  
 284  
 285  
 286  
 287  
 288  
 289  
 290  
 291  
 292  
 293  
 294  
 295  
 296  
 297  
 298  
 299  
 300  
 301  
 302  
 303  
 304  
 305  
 306  
 307  
 308  
 309  
 310  
 311  
 312  
 313  
 314  
 315  
 316  
 317  
 318  
 319  
 320  
 321  
 322  
 323  
 324  
 325  
 326  
 327  
 328  
 329  
 330  
 331  
 332  
 333  
 334  
 335  
 336  
 337  
 338  
 339  
 340  
 341  
 342  
 343  
 344  
 345  
 346  
 347  
 348  
 349  
 350  
 351  
 352  
 353  
 354  
 355  
 356  
 357  
 358  
 359  
 360  
 361  
 362  
 363  
 364  
 365  
 366  
 367  
 368  
 369  
 370  
 371  
 372  
 373  
 374  
 375  
 376  
 377  
 378  
 379  
 380  
 381  
 382  
 383  
 384  
 385  
 386  
 387  
 388  
 389  
 390  
 391  
 392  
 393  
 394  
 395  
 396  
 397  
 398  
 399  
 400  
 401  
 402  
 403  
 404  
 405  
 406  
 407  
 408  
 409  
 410  
 411  
 412  
 413  
 414  
 415  
 416  
 417  
 418  
 419  
 420  
 421  
 422  
 423  
 424  
 425  
 426  
 427  
 428  
 429  
 430  
 431  
 432  
 433  
 434  
 435  
 436  
 437  
 438  
 439  
 440  
 441  
 442  
 443  
 444  
 445  
 446  
 447  
 448  
 449  
 450  
 451  
 452  
 453  
 454  
 455  
 456  
 457  
 458  
 459  
 460  
 461  
 462  
 463  
 464  
 465  
 466  
 467  
 468  
 469  
 470  
 471  
 472  
 473  
 474  
 475  
 476  
 477  
 478  
 479  
 480  
 481  
 482  
 483  
 484  
 485  
 486  
 487  
 488  
 489  
 490  
 491  
 492  
 493  
 494  
 495  
 496  
 497  
 498  
 499  
 500  
 501  
 502  
 503  
 504  
 505  
 506  
 507  
 508  
 509  
 510  
 511  
 512  
 513  
 514  
 515  
 516  
 517  
 518  
 519  
 520  
 521  
 522  
 523  
 524  
 525  
 526  
 527  
 528  
 529  
 530  
 531  
 532  
 533  
 534  
 535  
 536  
 537  
 538  
 539  
 540  
 541  
 542  
 543  
 544  
 545  
 546  
 547  
 548  
 549  
 550  
 551  
 552  
 553  
 554  
 555  
 556  
 557  
 558  
 559  
 560  
 561  
 562  
 563  
 564  
 565  
 566  
 567  
 568  
 569  
 570  
 571  
 572  
 573  
 574  
 575  
 576  
 577  
 578  
 579  
 580  
 581  
 582  
 583  
 584  
 585  
 586  
 587  
 588  
 589  
 590  
 591  
 592  
 593  
 594  
 595  
 596  
 597  
 598  
 599  
 600  
 601  
 602  
 603  
 604  
 605  
 606  
 607  
 608  
 609  
 610  
 611  
 612  
 613  
 614  
 615  
 616  
 617  
 618  
 619  
 620  
 621  
 622  
 623  
 624  
 625  
 626  
 627  
 628  
 629  
 630  
 631  
 632  
 633  
 634  
 635  
 636  
 637  
 638  
 639  
 640  
 641  
 642  
 643  
 644  
 645  
 646  
 647  
 648  
 649  
 650  
 651  
 652  
 653  
 654  
 655  
 656  
 657  
 658  
 659  
 660  
 661  
 662  
 663  
 664  
 665  
 666  
 667  
 668  
 669  
 670  
 671  
 672  
 673  
 674  
 675  
 676  
 677  
 678  
 679  
 680  
 681  
 682  
 683  
 684  
 685  
 686  
 687  
 688  
 689  
 690  
 691  
 692  
 693  
 694  
 695  
 696  
 697  
 698  
 699  
 700  
 701  
 702  
 703  
 704  
 705  
 706  
 707  
 708  
 709  
 710  
 711  
 712  
 713  
 714  
 715  
 716  
 717  
 718  
 719  
 720  
 721  
 722  
 723  
 724  
 725  
 726  
 727  
 728  
 729  
 730  
 731  
 732  
 733  
 734  
 735  
 736  
 737  
 738  
 739  
 740  
 741  
 742  
 743  
 744  
 745  
 746  
 747  
 748  
 749  
 750  
 751  
 752  
 753  
 754  
 755  
 756  
 757  
 758  
 759  
 760  
 761  
 762  
 763  
 764  
 765  
 766  
 767  
 768  
 769  
 770  
 771  
 772  
 773  
 774  
 775  
 776  
 777  
 778  
 779  
 780  
 781  
 782  
 783  
 784  
 785  
 786  
 787  
 788  
 789  
 790  
 791  
 792  
 793  
 794  
 795  
 796  
 797  
 798  
 799  
 800  
 801  
 802  
 803  
 804  
 805  
 806  
 807  
 808  
 809  
 810  
 811  
 812  
 813  
 814  
 815  
 816  
 817  
 818  
 819  
 820  
 821  
 822  
 823  
 824  
 825  
 826  
 827  
 828  
 829  
 830  
 831  
 832  
 833  
 834  
 835  
 836  
 837  
 838  
 839  
 840  
 841  
 842  
 843  
 844  
 845  
 846  
 847  
 848  
 849  
 850  
 851  
 852  
 853

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-3  
 SDG: 68085860-3

## Client Sample ID: CV0511RRR-CS

Date Collected: 12/13/12 16:10  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-47

Matrix: Solid  
 Percent Solids: 74.0

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	74	J	89	41	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
2-Methylnaphthalene	100		89	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Acenaphthene	280		89	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Acenaphthylene	89	U	89	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Anthracene	740		89	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Benzo[a]anthracene	3400		89	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Benzo[a]pyrene	3300		89	16	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Benzo[b]fluoranthene	4900		89	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Benzo[g,h,i]perylene	1300		89	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Benzo[k]fluoranthene	1800		89	27	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Chrysene	3800		89	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Dibenz(a,h)anthracene	520		89	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Fluoranthene	6800		89	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Fluorene	260		89	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Indeno[1,2,3-cd]pyrene	1300	J	89	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Naphthalene	120		89	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Pyrene	5300		89	44	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
Phenanthrene	3300		89	32	ug/Kg	⊗	12/20/12 16:11	12/22/12 02:39	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	D			36 - 131		12/20/12 16:11	12/22/12 02:39	10

## Client Sample ID: CV0511AD-GS

Date Collected: 12/13/12 13:30  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-48

Matrix: Solid  
 Percent Solids: 61.2

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	14		11	5.0	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
2-Methylnaphthalene	21		11	5.3	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Acenaphthene	5.8	J	11	5.3	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Acenaphthylene	11	U	11	5.3	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Anthracene	14		11	5.3	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Benzo[a]anthracene	63		11	5.3	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Benzo[a]pyrene	71		11	1.9	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Benzo[b]fluoranthene	120		11	5.3	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Benzo[g,h,i]perylene	25		11	5.3	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Benzo[k]fluoranthene	46		11	3.2	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Chrysene	82		11	5.3	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Dibenz(a,h)anthracene	9.6	J	11	5.3	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Fluoranthene	130		11	5.3	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Fluorene	8.0	J	11	5.3	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Indeno[1,2,3-cd]pyrene	17		11	5.3	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Naphthalene	26		11	5.3	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Pyrene	130		11	5.3	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
Phenanthrene	75		11	3.9	ug/Kg	⊗	12/20/12 16:11	12/21/12 18:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	62				36 - 131		12/20/12 16:11	12/21/12 18:52	1

1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11  
 12  
 13  
 14  
 15  
 16  
 17  
 18  
 19  
 20  
 21  
 22  
 23  
 24  
 25  
 26  
 27  
 28  
 29  
 30  
 31  
 32  
 33  
 34  
 35  
 36  
 37  
 38  
 39  
 40  
 41  
 42  
 43  
 44  
 45  
 46  
 47  
 48  
 49  
 50  
 51  
 52  
 53  
 54  
 55  
 56  
 57  
 58  
 59  
 60  
 61  
 62  
 63  
 64  
 65  
 66  
 67  
 68  
 69  
 70  
 71  
 72  
 73  
 74  
 75  
 76  
 77  
 78  
 79  
 80  
 81  
 82  
 83  
 84  
 85  
 86  
 87  
 88  
 89  
 90  
 91  
 92  
 93  
 94  
 95  
 96  
 97  
 98  
 99  
 100  
 101  
 102  
 103  
 104  
 105  
 106  
 107  
 108  
 109  
 110  
 111  
 112  
 113  
 114  
 115  
 116  
 117  
 118  
 119  
 120  
 121  
 122  
 123  
 124  
 125  
 126  
 127  
 128  
 129  
 130  
 131  
 132  
 133  
 134  
 135  
 136  
 137  
 138  
 139  
 140  
 141  
 142  
 143  
 144  
 145  
 146  
 147  
 148  
 149  
 150  
 151  
 152  
 153  
 154  
 155  
 156  
 157  
 158  
 159  
 160  
 161  
 162  
 163  
 164  
 165  
 166  
 167  
 168  
 169  
 170  
 171  
 172  
 173  
 174  
 175  
 176  
 177  
 178  
 179  
 180  
 181  
 182  
 183  
 184  
 185  
 186  
 187  
 188  
 189  
 190  
 191  
 192  
 193  
 194  
 195  
 196  
 197  
 198  
 199  
 200  
 201  
 202  
 203  
 204  
 205  
 206  
 207  
 208  
 209  
 210  
 211  
 212  
 213  
 214  
 215  
 216  
 217  
 218  
 219  
 220  
 221  
 222  
 223  
 224  
 225  
 226  
 227  
 228  
 229  
 230  
 231  
 232  
 233  
 234  
 235  
 236  
 237  
 238  
 239  
 240  
 241  
 242  
 243  
 244  
 245  
 246  
 247  
 248  
 249  
 250  
 251  
 252  
 253  
 254  
 255  
 256  
 257  
 258  
 259  
 260  
 261  
 262  
 263  
 264  
 265  
 266  
 267  
 268  
 269  
 270  
 271  
 272  
 273  
 274  
 275  
 276  
 277  
 278  
 279  
 280  
 281  
 282  
 283  
 284  
 285  
 286  
 287  
 288  
 289  
 290  
 291  
 292  
 293  
 294  
 295  
 296  
 297  
 298  
 299  
 300  
 301  
 302  
 303  
 304  
 305  
 306  
 307  
 308  
 309  
 310  
 311  
 312  
 313  
 314  
 315  
 316  
 317  
 318  
 319  
 320  
 321  
 322  
 323  
 324  
 325  
 326  
 327  
 328  
 329  
 330  
 331  
 332  
 333  
 334  
 335  
 336  
 337  
 338  
 339  
 340  
 341  
 342  
 343  
 344  
 345  
 346  
 347  
 348  
 349  
 350  
 351  
 352  
 353  
 354  
 355  
 356  
 357  
 358  
 359  
 360  
 361  
 362  
 363  
 364  
 365  
 366  
 367  
 368  
 369  
 370  
 371  
 372  
 373  
 374  
 375  
 376  
 377  
 378  
 379  
 380  
 381  
 382  
 383  
 384  
 385  
 386  
 387  
 388  
 389  
 390  
 391  
 392  
 393  
 394  
 395  
 396  
 397  
 398  
 399  
 400  
 401  
 402  
 403  
 404  
 405  
 406  
 407  
 408  
 409  
 410  
 411  
 412  
 413  
 414  
 415  
 416  
 417  
 418  
 419  
 420  
 421  
 422  
 423  
 424  
 425  
 426  
 427  
 428  
 429  
 430  
 431  
 432  
 433  
 434  
 435  
 436  
 437  
 438  
 439  
 440  
 441  
 442  
 443  
 444  
 445  
 446  
 447  
 448  
 449  
 450  
 451  
 452  
 453  
 454  
 455  
 456  
 457  
 458  
 459  
 460  
 461  
 462  
 463  
 464  
 465  
 466  
 467  
 468  
 469  
 470  
 471  
 472  
 473  
 474  
 475  
 476  
 477  
 478  
 479  
 480  
 481  
 482  
 483  
 484  
 485  
 486  
 487  
 488  
 489  
 490  
 491  
 492  
 493  
 494  
 495  
 496  
 497  
 498  
 499  
 500  
 501  
 502  
 503  
 504  
 505  
 506  
 507  
 508  
 509  
 510  
 511  
 512  
 513  
 514  
 515  
 516  
 517  
 518  
 519  
 520  
 521  
 522  
 523  
 524  
 525  
 526  
 527  
 528  
 529  
 530  
 531  
 532  
 533  
 534  
 535  
 536  
 537  
 538  
 539  
 540  
 541  
 542  
 543  
 544  
 545  
 546  
 547  
 548  
 549  
 550  
 551  
 552  
 553  
 554  
 555  
 556  
 557  
 558  
 559  
 560  
 561  
 562  
 563  
 564  
 565  
 566  
 567  
 568  
 569  
 570  
 571  
 572  
 573  
 574  
 575  
 576  
 577  
 578  
 579  
 580  
 581  
 582  
 583  
 584  
 585  
 586  
 587  
 588  
 589  
 590  
 591  
 592  
 593  
 594  
 595  
 596  
 597  
 598  
 599  
 600  
 601  
 602  
 603  
 604  
 605  
 606  
 607  
 608  
 609  
 610  
 611  
 612  
 613  
 614  
 615  
 616  
 617  
 618  
 619  
 620  
 621  
 622  
 623  
 624  
 625  
 626  
 627  
 628  
 629  
 630  
 631  
 632  
 633  
 634  
 635  
 636  
 637  
 638  
 639  
 640  
 641  
 642  
 643  
 644  
 645  
 646  
 647  
 648  
 649  
 650  
 651  
 652  
 653  
 654  
 655  
 656  
 657  
 658  
 659  
 660  
 661  
 662  
 663  
 664  
 665  
 666  
 667  
 668  
 669  
 670  
 671  
 672  
 673  
 674  
 675  
 676  
 677  
 678  
 679  
 680  
 681  
 682  
 683  
 684  
 685  
 686  
 687  
 688  
 689  
 690  
 691  
 692  
 693  
 694  
 695  
 696  
 697  
 698  
 699  
 700  
 701  
 702  
 703  
 704  
 705  
 706  
 707  
 708  
 709  
 710  
 711  
 712  
 713  
 714  
 715  
 716  
 717  
 718  
 719  
 720  
 721  
 722  
 723  
 724  
 725  
 726  
 727  
 728  
 729  
 730  
 731  
 732  
 733  
 734  
 735  
 736  
 737  
 738  
 739  
 740  
 741  
 742  
 743  
 744  
 745  
 746  
 747  
 748  
 749  
 750  
 751  
 752  
 753  
 754  
 755  
 756  
 757  
 758  
 759  
 760  
 761  
 762  
 763  
 764  
 765  
 766  
 767  
 768  
 769  
 770  
 771  
 772  
 773  
 774  
 775  
 776  
 777  
 778  
 779  
 780  
 781  
 782  
 783  
 784  
 785  
 786  
 787  
 788  
 789  
 790  
 791  
 792  
 793  
 794  
 795  
 796  
 797  
 798  
 799  
 800  
 801  
 802  
 803  
 804  
 805  
 806  
 807  
 808  
 809  
 810  
 811  
 812  
 813  
 814  
 815  
 816  
 817  
 818  
 819  
 820  
 821  
 822  
 823  
 824  
 825  
 826  
 827  
 828  
 829  
 830  
 831  
 832  
 833  
 834  
 835  
 836  
 837  
 838  
 839  
 840  
 841  
 842  
 843  
 844  
 845  
 846  
 847  
 848  
 849  
 850  
 851  
 852  
 853  
 854  
 855  
 85

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-3  
 SDG: 68085860-3

## Client Sample ID: CV0511UU-CS

Date Collected: 12/13/12 10:30  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-49

Matrix: Solid  
 Percent Solids: 83.2

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	79	U	79	37	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
2-Methylnaphthalene	79	U	79	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
Acenaphthene	79	U	79	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
Acenaphthylene	79	U	79	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
Anthracene	79	U	79	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
<b>Benzo[a]anthracene</b>	<b>180</b>		79	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
<b>Benzo[a]pyrene</b>	<b>230</b>		79	14	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
<b>Benzo[b]fluoranthene</b>	<b>340</b>		79	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
<b>Benzo[g,h,i]perylene</b>	<b>140</b>		79	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
<b>Benzo[k]fluoranthene</b>	<b>120</b>		79	24	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
<b>Chrysene</b>	<b>240</b>		79	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
<b>Dibenz(a,h)anthracene</b>	<b>51</b> J		79	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
<b>Fluoranthene</b>	<b>410</b>		79	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
Fluorene	79	U	79	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
<b>Indeno[1,2,3-cd]pyrene</b>	<b>130</b> J		79	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
Naphthalene	79	U	79	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
<b>Pyrene</b>	<b>330</b>		79	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
<b>Phenanthrene</b>	<b>160</b>		79	28	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:09	10
<b>Surrogate</b>									
	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	0	D		36 - 131			12/20/12 16:11	12/21/12 22:09	10

## Client Sample ID: CV0511VV-CS

Date Collected: 12/13/12 10:50  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-50

Matrix: Solid  
 Percent Solids: 68.5

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	98	U	98	45	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
2-Methylnaphthalene	98	U	98	48	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
<b>Acenaphthene</b>	<b>58</b> J		98	48	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
Acenaphthylene	98	U	98	48	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
<b>Anthracene</b>	<b>93</b> J		98	48	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
<b>Benzo[a]anthracene</b>	<b>620</b>		98	48	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
<b>Benzo[a]pyrene</b>	<b>800</b>		98	17	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
<b>Benzo[b]fluoranthene</b>	<b>1100</b>		98	48	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
<b>Benzo[g,h,i]perylene</b>	<b>370</b>		98	48	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
<b>Benzo[k]fluoranthene</b>	<b>460</b>		98	29	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
<b>Chrysene</b>	<b>790</b>		98	48	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
<b>Dibenz(a,h)anthracene</b>	<b>150</b>		98	48	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
<b>Fluoranthene</b>	<b>1400</b>		98	48	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
Fluorene	98	U	98	48	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
<b>Indeno[1,2,3-cd]pyrene</b>	<b>370</b> J		98	48	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
Naphthalene	98	U	98	48	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
<b>Pyrene</b>	<b>1100</b>		98	48	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
<b>Phenanthrene</b>	<b>570</b>		98	35	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:10	10
<b>Surrogate</b>									
	%Recovery	Qualifier		Limits			Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	0	D		36 - 131			12/20/12 16:11	12/22/12 01:10	10

TestAmerica Savannah

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
840  
841  
842  
843  
844  
845  
846  
847  
848  
849  
840  
841  
842  
843  
844  
845  
846  
847  
848  
849  
850  
851  
852  
853  
854  
855  
856  
857  
858  
859  
850  
851  
852  
853  
854  
855  
856  
8

## **Client Sample Results**

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-3  
SDG: 68085860-3

**Client Sample ID: CV0511WW-CS**

**Date Collected:** 12/13/12 10:53

**Date Received:** 12/15/12 10:03

**Lab Sample ID: 680-85860-51**

## **Matrix: Solid**

**Percent Solids: 67.0**

**Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	99	U	99	46	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
2-Methylnaphthalene	99	U	99	49	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
Acenaphthene	99	U	99	49	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
Acenaphthylene	99	U	99	49	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
<b>Anthracene</b>	<b>49</b>	<b>J</b>	99	49	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
<b>Benzo[a]anthracene</b>	<b>320</b>		99	49	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
<b>Benzo[a]pyrene</b>	<b>360</b>		99	18	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
<b>Benzo[b]fluoranthene</b>	<b>520</b>		99	49	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
<b>Benzo[g,h,i]perylene</b>	<b>160</b>		99	49	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
<b>Benzo[k]fluoranthene</b>	<b>190</b>		99	29	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
<b>Chrysene</b>	<b>410</b>		99	49	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
<b>Dibenz(a,h)anthracene</b>	<b>60</b>	<b>J</b>	99	49	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
<b>Fluoranthene</b>	<b>740</b>		99	49	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
Fluorene	99	U	99	49	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
<b>Indeno[1,2,3-cd]pyrene</b>	<b>170</b>	<b>J</b>	99	49	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
Naphthalene	99	U	99	49	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
<b>Pyrene</b>	<b>540</b>		99	49	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
<b>Phenanthrene</b>	<b>330</b>		99	35	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:32	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	0	D	36 - 131				12/20/12 16:11	12/22/12 01:32	10

**Client Sample ID: CV0511XX-CS**

**Lab Sample ID: 680-85860-52**

Date Collected: 12/13/12 10:59

Date Received: 12/15/12 10:03

**Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	120	U	120	53	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
2-Methylnaphthalene	120	U	120	57	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
<b>Acenaphthene</b>	<b>110</b>	<b>J</b>	120	57	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
Acenaphthylene	120	U	120	57	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
<b>Anthracene</b>	<b>150</b>		120	57	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
<b>Benzo[a]anthracene</b>	<b>1200</b>		120	57	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
<b>Benzo[a]pyrene</b>	<b>1600</b>		120	21	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
<b>Benzo[b]fluoranthene</b>	<b>2200</b>		120	57	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
<b>Benzo[g,h,i]perylene</b>	<b>740</b>		120	57	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
<b>Benzo[k]fluoranthene</b>	<b>870</b>		120	34	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
<b>Chrysene</b>	<b>1600</b>		120	57	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
<b>Dibenz(a,h)anthracene</b>	<b>270</b>		120	57	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
<b>Fluoranthene</b>	<b>2800</b>		120	57	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
<b>Fluorene</b>	<b>70</b>	<b>J</b>	120	57	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
<b>Indeno[1,2,3-cd]pyrene</b>	<b>750</b>	<b>J</b>	120	57	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
Naphthalene	120	U	120	57	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
<b>Pyrene</b>	<b>2300</b>		120	57	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
<b>Phenanthrene</b>	<b>1100</b>		120	41	ug/Kg	⊗	12/20/12 16:11	12/22/12 01:55	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	0	D	36 - 131				12/20/12 16:11	12/22/12 01:55	10

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-3  
 SDG: 68085860-3

## Client Sample ID: CV0511YY-CS

Date Collected: 12/13/12 11:10  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-53

Matrix: Solid  
 Percent Solids: 67.1

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	99	U	99	46	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
2-Methylnaphthalene	99	U	99	49	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
Acenaphthene	99	U	99	49	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
Acenaphthylene	99	U	99	49	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
<b>Anthracene</b>	<b>79</b>	<b>J</b>	99	49	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
<b>Benzo[a]anthracene</b>	<b>320</b>		99	49	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
<b>Benzo[a]pyrene</b>	<b>360</b>		99	18	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
<b>Benzo[b]fluoranthene</b>	<b>500</b>		99	49	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
<b>Benzo[g,h,i]perylene</b>	<b>210</b>		99	49	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
<b>Benzo[k]fluoranthene</b>	<b>170</b>		99	30	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
<b>Chrysene</b>	<b>370</b>		99	49	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
<b>Dibenz(a,h)anthracene</b>	<b>87</b>	<b>J</b>	99	49	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
<b>Fluoranthene</b>	<b>700</b>		99	49	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
Fluorene	99	U	99	49	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
<b>Indeno[1,2,3-cd]pyrene</b>	<b>210</b>	<b>J</b>	99	49	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
Naphthalene	99	U	99	49	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
<b>Pyrene</b>	<b>530</b>		99	49	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
<b>Phenanthrene</b>	<b>350</b>		99	35	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:16	10
<b>Surrogate</b>									
<i>o-Terphenyl</i>	0	D							
					<b>Limits</b>				
					36 - 131				
							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
							12/20/12 16:11	12/21/12 20:16	10

## Client Sample ID: CV0511ZZ-CS

Date Collected: 12/13/12 11:30  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-54

Matrix: Solid  
 Percent Solids: 60.9

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>1-Methylnaphthalene</b>	<b>51</b>	<b>J</b>	110	50	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
<b>2-Methylnaphthalene</b>	<b>68</b>	<b>J</b>	110	53	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
Acenaphthene	110	U	110	53	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
Acenaphthylene	110	U	110	53	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
<b>Anthracene</b>	<b>71</b>	<b>J</b>	110	53	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
<b>Benzo[a]anthracene</b>	<b>290</b>		110	53	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
<b>Benzo[a]pyrene</b>	<b>340</b>		110	19	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
<b>Benzo[b]fluoranthene</b>	<b>480</b>		110	53	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
<b>Benzo[g,h,i]perylene</b>	<b>220</b>		110	53	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
<b>Benzo[k]fluoranthene</b>	<b>220</b>		110	32	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
<b>Chrysene</b>	<b>360</b>		110	53	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
<b>Dibenz(a,h)anthracene</b>	<b>76</b>	<b>J</b>	110	53	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
<b>Fluoranthene</b>	<b>600</b>		110	53	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
Fluorene	110	U	110	53	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
<b>Indeno[1,2,3-cd]pyrene</b>	<b>190</b>	<b>J</b>	110	53	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
<b>Naphthalene</b>	<b>69</b>	<b>J</b>	110	53	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
<b>Pyrene</b>	<b>490</b>		110	53	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
<b>Phenanthrene</b>	<b>340</b>		110	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 20:39	10
<b>Surrogate</b>									
<i>o-Terphenyl</i>	0	D							
					<b>Limits</b>				
					36 - 131				
							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
							12/20/12 16:11	12/21/12 20:39	10

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
830  
83

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-3  
 SDG: 68085860-3

## Client Sample ID: CV0621A-CS

Date Collected: 12/13/12 13:50  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-55

Matrix: Solid  
 Percent Solids: 78.9

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	47	J	84	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
2-Methylnaphthalene	57	J	84	41	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Acenaphthene	84	U	84	41	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Acenaphthylene	84	U	84	41	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Anthracene	120		84	41	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Benzo[a]anthracene	690		84	41	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Benzo[a]pyrene	830		84	15	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Benzo[b]fluoranthene	1200		84	41	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Benzo[g,h,i]perylene	540		84	41	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Benzo[k]fluoranthene	440		84	25	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Chrysene	830		84	41	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Dibenz(a,h)anthracene	180		84	41	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Fluoranthene	1300		84	41	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Fluorene	84	U	84	41	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Indeno[1,2,3-cd]pyrene	490	J	84	41	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Naphthalene	51	J	84	41	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Pyrene	1000		84	41	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
Phenanthrene	600		84	30	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:01	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	D		36 - 131			12/20/12 16:11	12/21/12 21:01	10

## Client Sample ID: CV0621B-CS

Date Collected: 12/13/12 13:58  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-56

Matrix: Solid  
 Percent Solids: 77.8

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	47	J	85	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
2-Methylnaphthalene	67	J	85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Acenaphthene	85	U	85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Acenaphthylene	85	U	85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Anthracene	88		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Benzo[a]anthracene	720		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Benzo[a]pyrene	940		85	15	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Benzo[b]fluoranthene	1400		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Benzo[g,h,i]perylene	550		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Benzo[k]fluoranthene	440		85	25	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Chrysene	870		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Dibenz(a,h)anthracene	190		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Fluoranthene	980		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Fluorene	85	U	85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Indeno[1,2,3-cd]pyrene	490	J	85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Naphthalene	54	J	85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Pyrene	920		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
Phenanthrene	400		85	30	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:24	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	D		36 - 131			12/20/12 16:11	12/21/12 21:24	10

1  
 2  
 3  
 4  
 5  
 6  
 7  
 8  
 9  
 10  
 11  
 12  
 13  
 14  
 15  
 16  
 17  
 18  
 19  
 20  
 21  
 22  
 23  
 24  
 25  
 26  
 27  
 28  
 29  
 30  
 31  
 32  
 33  
 34  
 35  
 36  
 37  
 38  
 39  
 40  
 41  
 42  
 43  
 44  
 45  
 46  
 47  
 48  
 49  
 50  
 51  
 52  
 53  
 54  
 55  
 56  
 57  
 58  
 59  
 60  
 61  
 62  
 63  
 64  
 65  
 66  
 67  
 68  
 69  
 70  
 71  
 72  
 73  
 74  
 75  
 76  
 77  
 78  
 79  
 80  
 81  
 82  
 83  
 84  
 85  
 86  
 87  
 88  
 89  
 90  
 91  
 92  
 93  
 94  
 95  
 96  
 97  
 98  
 99  
 100  
 101  
 102  
 103  
 104  
 105  
 106  
 107  
 108  
 109  
 110  
 111  
 112  
 113  
 114  
 115  
 116  
 117  
 118  
 119  
 120  
 121  
 122  
 123  
 124  
 125  
 126  
 127  
 128  
 129  
 130  
 131  
 132  
 133  
 134  
 135  
 136  
 137  
 138  
 139  
 140  
 141  
 142  
 143  
 144  
 145  
 146  
 147  
 148  
 149  
 150  
 151  
 152  
 153  
 154  
 155  
 156  
 157  
 158  
 159  
 160  
 161  
 162  
 163  
 164  
 165  
 166  
 167  
 168  
 169  
 170  
 171  
 172  
 173  
 174  
 175  
 176  
 177  
 178  
 179  
 180  
 181  
 182  
 183  
 184  
 185  
 186  
 187  
 188  
 189  
 190  
 191  
 192  
 193  
 194  
 195  
 196  
 197  
 198  
 199  
 200  
 201  
 202  
 203  
 204  
 205  
 206  
 207  
 208  
 209  
 210  
 211  
 212  
 213  
 214  
 215  
 216  
 217  
 218  
 219  
 220  
 221  
 222  
 223  
 224  
 225  
 226  
 227  
 228  
 229  
 230  
 231  
 232  
 233  
 234  
 235  
 236  
 237  
 238  
 239  
 240  
 241  
 242  
 243  
 244  
 245  
 246  
 247  
 248  
 249  
 250  
 251  
 252  
 253  
 254  
 255  
 256  
 257  
 258  
 259  
 260  
 261  
 262  
 263  
 264  
 265  
 266  
 267  
 268  
 269  
 270  
 271  
 272  
 273  
 274  
 275  
 276  
 277  
 278  
 279  
 280  
 281  
 282  
 283  
 284  
 285  
 286  
 287  
 288  
 289  
 290  
 291  
 292  
 293  
 294  
 295  
 296  
 297  
 298  
 299  
 300  
 310  
 320  
 330  
 340  
 350  
 360  
 370  
 380  
 390  
 400  
 410  
 420  
 430  
 440  
 450  
 460  
 470  
 480  
 490  
 500  
 510  
 520  
 530  
 540  
 550  
 560  
 570  
 580  
 590  
 600  
 610  
 620  
 630  
 640  
 650  
 660  
 670  
 680  
 690  
 700  
 710  
 720  
 730  
 740  
 750  
 760  
 770  
 780  
 790  
 800  
 810  
 820  
 830  
 840  
 850  
 860  
 870  
 880  
 890  
 900  
 910  
 920  
 930  
 940  
 950  
 960  
 970  
 980  
 990  
 1000  
 1010  
 1020  
 1030  
 1040  
 1050  
 1060  
 1070  
 1080  
 1090  
 1100  
 1110  
 1120  
 1130  
 1140  
 1150  
 1160  
 1170  
 1180  
 1190  
 1200  
 1210  
 1220  
 1230  
 1240  
 1250  
 1260  
 1270  
 1280  
 1290  
 1300  
 1310  
 1320  
 1330  
 1340  
 1350  
 1360  
 1370  
 1380  
 1390  
 1400  
 1410  
 1420  
 1430  
 1440  
 1450  
 1460  
 1470  
 1480  
 1490  
 1500  
 1510  
 1520  
 1530  
 1540  
 1550  
 1560  
 1570  
 1580  
 1590  
 1600  
 1610  
 1620  
 1630  
 1640  
 1650  
 1660  
 1670  
 1680  
 1690  
 1700  
 1710  
 1720  
 1730  
 1740  
 1750  
 1760  
 1770  
 1780  
 1790  
 1800  
 1810  
 1820  
 1830  
 1840  
 1850  
 1860  
 1870  
 1880  
 1890  
 1900  
 1910  
 1920  
 1930  
 1940  
 1950  
 1960  
 1970  
 1980  
 1990  
 2000  
 2010  
 2020  
 2030  
 2040  
 2050  
 2060  
 2070  
 2080  
 2090  
 2100  
 2110  
 2120  
 2130  
 2140  
 2150  
 2160  
 2170  
 2180  
 2190  
 2200  
 2210  
 2220  
 2230  
 2240  
 2250  
 2260  
 2270  
 2280  
 2290  
 2300  
 2310  
 2320  
 2330  
 2340  
 2350  
 2360  
 2370  
 2380  
 2390  
 2400  
 2410  
 2420  
 2430  
 2440  
 2450  
 2460  
 2470  
 2480  
 2490  
 2500  
 2510  
 2520  
 2530  
 2540  
 2550  
 2560  
 2570  
 2580  
 2590  
 2600  
 2610  
 2620  
 2630  
 2640  
 2650  
 2660  
 2670  
 2680  
 2690  
 2700  
 2710  
 2720  
 2730  
 2740  
 2750  
 2760  
 2770  
 2780  
 2790  
 2800  
 2810  
 2820  
 2830  
 2840  
 2850  
 2860  
 2870  
 2880  
 2890  
 2900  
 2910  
 2920  
 2930  
 2940  
 2950  
 2960  
 2970  
 2980  
 2990  
 3000  
 3100  
 3200  
 3300  
 3400  
 3500  
 3600  
 3700  
 3800  
 3900  
 4000  
 4100  
 4200  
 4300  
 4400  
 4500  
 4600  
 4700  
 4800  
 4900  
 5000  
 5100  
 5200  
 5300  
 5400  
 5500  
 5600  
 5700  
 5800  
 5900  
 6000  
 6100  
 6200  
 6300  
 6400  
 6500  
 6600  
 6700  
 6800  
 6900  
 7000  
 7100  
 7200  
 7300  
 7400  
 7500  
 7600  
 7700  
 7800  
 7900  
 8000  
 8100  
 8200  
 8300  
 8400  
 8500  
 8600  
 8700  
 8800  
 8900  
 9000  
 9100  
 9200  
 9300  
 9400  
 9500  
 9600  
 9700  
 9800  
 9900  
 10000  
 10100  
 10200  
 10300  
 10400  
 10500  
 10600  
 10700  
 10800  
 10900  
 11000  
 11100  
 11200  
 11300  
 11400  
 11500  
 11600  
 11700  
 11800  
 11900  
 12000  
 12100  
 12200  
 12300  
 12400  
 12500  
 12600  
 12700  
 12800  
 12900  
 13000  
 13100  
 13200  
 13300  
 13400  
 13500  
 13600  
 13700  
 13800  
 13900  
 14000  
 14100  
 14200  
 14300  
 14400  
 14500  
 14600  
 14700  
 14800  
 14900  
 15000  
 15100  
 15200  
 15300  
 15400  
 15500  
 15600  
 15700  
 15800  
 15900  
 16000  
 16100  
 16200  
 16300  
 16400  
 16500  
 16600  
 16700  
 16800  
 16900  
 17000  
 17100  
 17200  
 17300  
 17400  
 17500  
 17600  
 17700  
 17800  
 17900  
 18000  
 18100  
 18200  
 18300  
 18400  
 18500  
 18600  
 18700  
 18800  
 18900  
 19000  
 19100  
 19200  
 19300  
 19400  
 19500  
 19600  
 19700  
 19800  
 19900  
 20000  
 20100  
 20200  
 20300  
 20400  
 20500  
 20600  
 20700  
 20800  
 20900  
 21000  
 21100  
 21200  
 21300  
 21400  
 21500  
 21600  
 21700  
 21800  
 21900  
 22000  
 22100  
 22200  
 22300  
 22400  
 22500  
 22600  
 22700  
 22800  
 22900  
 23000  
 23100  
 23200  
 23300  
 23400  
 23500  
 23600  
 23700<br

## **Client Sample Results**

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-3  
SDG: 68085860-3

**Client Sample ID: CV0621C-CS**

**Date Collected:** 12/13/12 13:40

**Date Received:** 12/15/12 10:03

**Lab Sample ID: 680-85860-57**

## **Matrix: Solid**

**Percent Solids: 77.9**

**Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	95		85	39	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
2-Methylnaphthalene	120		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Acenaphthene	85	U	85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Acenaphthylene	85	U	85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Anthracene	50	J	85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Benzo[a]anthracene	230		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Benzo[a]pyrene	260		85	15	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Benzo[b]fluoranthene	470		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Benzo[g,h,i]perylene	190		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Benzo[k]fluoranthene	160		85	25	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Chrysene	350		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Dibenz(a,h)anthracene	62	J	85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Fluoranthene	420		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Fluorene	85	U	85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Indeno[1,2,3-cd]pyrene	140	J	85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Naphthalene	92		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Pyrene	360		85	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Phenanthrene	270		85	30	ug/Kg	⊗	12/20/12 16:11	12/21/12 23:17	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	0	D	36 - 131				12/20/12 16:11	12/21/12 23:17	10

**Client Sample ID: CV0621C-CSD**

**Lab Sample ID: 680-85860-58**

**Date Collected:** 12/13/12 13:45

Date Received: 12/15/12 10:03

**Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	84	J	87	40	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
2-Methylnaphthalene	99		87	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Acenaphthene	87	U	87	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Acenaphthylene	87	U	87	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Anthracene	51	J	87	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Benzo[a]anthracene	250		87	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Benzo[a]pyrene	250		87	16	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Benzo[b]fluoranthene	460		87	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Benzo[g,h,i]perylene	160		87	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Benzo[k]fluoranthene	200		87	26	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Chrysene	340		87	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Dibenz(a,h)anthracene	64	J	87	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Fluoranthene	440		87	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Fluorene	87	U	87	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Indeno[1,2,3-cd]pyrene	130	J	87	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Naphthalene	82	J	87	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Pyrene	340		87	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Phenanthrene	260		87	31	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:32	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	0	D	36 - 131				12/20/12 16:11	12/21/12 22:32	10

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-3  
 SDG: 68085860-3

## Client Sample ID: CV0510A-CS

Date Collected: 12/13/12 14:26  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-59

Matrix: Solid  
 Percent Solids: 73.7

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	93		91	42	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
2-Methylnaphthalene	130		91	45	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Acenaphthene	91 U		91	45	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Acenaphthylene	91 U		91	45	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Anthracene	91 U		91	45	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Benzo[a]anthracene	300		91	45	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Benzo[a]pyrene	470		91	16	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Benzo[b]fluoranthene	870		91	45	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Benzo[g,h,i]perylene	380		91	45	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Benzo[k]fluoranthene	270		91	27	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Chrysene	490		91	45	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Dibenz(a,h)anthracene	140		91	45	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Fluoranthene	380		91	45	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Fluorene	91 U		91	45	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Indeno[1,2,3-cd]pyrene	300 J		91	45	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Naphthalene	150		91	45	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Pyrene	340		91	45	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
Phenanthrene	260		91	32	ug/Kg	⊗	12/20/12 16:11	12/21/12 22:54	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	D			36 - 131		12/20/12 16:11	12/21/12 22:54	10

## Client Sample ID: CV0510B-CS

Date Collected: 12/13/12 14:21  
 Date Received: 12/15/12 10:03

## Lab Sample ID: 680-85860-60

Matrix: Solid  
 Percent Solids: 75.4

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	110		88	41	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
2-Methylnaphthalene	140		88	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Acenaphthene	88 U		88	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Acenaphthylene	88 U		88	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Anthracene	88 U		88	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Benzo[a]anthracene	160		88	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Benzo[a]pyrene	190		88	16	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Benzo[b]fluoranthene	300		88	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Benzo[g,h,i]perylene	150		88	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Benzo[k]fluoranthene	140		88	26	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Chrysene	240		88	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Dibenz(a,h)anthracene	75 J		88	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Fluoranthene	210		88	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Fluorene	88 U		88	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Indeno[1,2,3-cd]pyrene	120 J		88	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Naphthalene	100		88	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Pyrene	200		88	43	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
Phenanthrene	180		88	31	ug/Kg	⊗	12/20/12 16:11	12/21/12 21:47	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	D			36 - 131		12/20/12 16:11	12/21/12 21:47	10

Sample results have been qualified by URS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)